

## PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY

PCT<sup>®</sup> P & G Patent Division  
International ITC

To:

THE PROCTER & GAMBLE COMPANY  
Attn. Reed T. David  
6110 Center Hill Road  
Cincinnati, OH 45224  
UNITED STATES OF AMERICA✓ NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT  
OR THE DECLARATION

(PCT Rule 44.1)

*M. Neudert / K*Date of mailing  
(day/month/year)

04/02/2003

Applicant's or agent's file reference

CM2603Q/MH

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/US 02/ 28311

International filing date  
(day/month/year)

05/09/2002

Applicant

THE PROCTER &amp; GAMBLE COMPANY

- 1.
- ☒
- The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.**Where?** Directly to the International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland  
Fascicule No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

- 2.
- ☐
- The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.

- 3.
- ☐
- With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

- 4.
- Further action(s):**
- The applicant is reminded of the following:

Shortly after 18 months from the priority date, the International application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the International application, or of the priority claim, must reach the International Bureau as provided in Rules 90b/s.1 and 90b/s.3, respectively, before the completion of the technical preparations for International publication.

Within 19 months from the priority date, a demand for International preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Marie-Laure Dupont-H}per

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CM2603Q/MH	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 02/ 28311	International filing date (day/month/year) 05/09/2002	(Earliest) Priority Date (day/month/year) 05/09/2001
Applicant THE PROCTER & GAMBLE COMPANY		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☒ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

2  
☐ None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/28311

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A44B18/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A44B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 708 361 A (STUMPF R) 2 January 1973 (1973-01-02) column 4, line 21 -column 5, line 51; figures 1,8-14 ---	1-12
Y	US 5 595 567 A (KING WILLIE F ET AL) 21 January 1997 (1997-01-21) cited in the application column 6, line 38 -column 8, line 60; figures ---	1-12
Y	US 4 446 189 A (ROMANEK GERALD A) 1 May 1984 (1984-05-01) column 1, line 37 -column 2, line 28; figures 8,11-14 --- -/-	1-12

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

23 January 2003

Date of mailing of the international search report

04/02/2003

Name and mailing address of the ISA

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Fax: (+31-70) 340-3016

Authorized officer

Westermayer, W

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 02/28311

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 882 828 A (COROVIN GMBH) 9 December 1998 (1998-12-09) abstract; figures ----	1-12
A	US 5 997 981 A (HAFFNER WILLIAM BELA ET AL) 7 December 1999 (1999-12-07) the whole document -----	1-12

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/28311

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3708361	A	02-01-1973	NONE	
US 5595567	A	21-01-1997	AT 174479 T AU 3148295 A BR 9508547 A CA 2196662 A1 DE 69506717 D1 DE 69506717 T2 EP 0774909 A1 ES 2125637 T3 JP 10503954 T WO 9604812 A1 ZA 9506648 A	15-01-1999 07-03-1996 02-06-1998 22-02-1996 28-01-1999 20-05-1999 28-05-1997 01-03-1999 14-04-1998 22-02-1996 19-03-1996
US 4446189	A	01-05-1984	NONE	
EP 0882828	A	09-12-1998	DE 19722748 A1 EP 0882828 A1	03-12-1998 09-12-1998
US 5997981	A	07-12-1999	AU 739299 B2 AU 9390498 A BR 9815373 A CA 2301956 A1 CN 1270554 T EP 1023171 A1 PL 339298 A1 TR 200000708 T2 WO 9914046 A1 US 6238767 B1 ZA 9807312 A	11-10-2001 05-04-1999 24-10-2000 25-03-1999 18-10-2000 02-08-2000 04-12-2000 21-08-2002 25-03-1999 29-05-2001 16-02-1999